

## IN THE CLAIMS

Claim 1 (Currently amended) A blue colored, infrared and ultraviolet radiation absorbing glass composition having a composition comprising a base glass portion comprising:

SiO <sub>2</sub>	66 to 75 percent by weight,
Na <sub>2</sub> O	10 to 20 percent by weight,
CaO	5 to 15 percent by weight,
MgO	0 to 5 percent by weight,
Al <sub>2</sub> O <sub>3</sub>	0 to 5 percent by weight,
K <sub>2</sub> O	0 to 5 percent by weight,

and a primary solar radiation absorbing and colorant portion comprising:

total iron	0.6 to 2 percent by weight,
FeO	0.15 to 0.65 percent by weight,
CoO	30 to 250 PPM,
Se	present in an amount up to 15 PPM, and
TiO <sub>2</sub>	0 to 0.9 percent by weight,
Nd <sub>2</sub> O <sub>3</sub>	0 to 3 percent by weight

the glass having a redox in the range of 0.15 to 0.58, wherein at a redox range from ~~0.140~~ 0.15 to 0.4, the range of CoO is from 60 to 250 PPM, and wherein at a redox range greater than 0.4, the CoO is in the range of 30 to 100 PPM, and wherein at a thickness of 0.160 inches, the glass has a luminous transmittance (LTA) of 35% up to 70%, and a color characterized by a dominant wavelength in the range of 479 to 495 nanometers and an excitation purity of at least 4% ~~at a thickness of 0.160 inches~~.

Claim 2 (Original) The composition as in claim 1 wherein the total iron concentration is from greater than 0.9 to 1.3 weight percent.

Claim 3 (Currently amended) The composition as in claim 2 wherein the total iron concentration is up to 1.1 weight percent.

Claim 4 (Original) The composition as in claim 1 wherein, the FeO concentration is 0.20 to 0.50 weight percent.

Claim 5 (Original) The composition as in claim 1 wherein the CoO concentration is 60 to 130 PPM.

Claim 6 (Original) The composition as in claim 4 wherein the CoO concentration is 60 to 95 PPM.

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Claim 7 (Original) The composition as in claim 1 wherein, the Selenium concentration is up to 12 PPM.

Claim 8 (Original) The composition as in claim 1 wherein, the TiO<sub>2</sub> concentration is 0 to 0.5 weight percent.

Claim 9 (Original) The composition as in claim 1 wherein the LTA is in the range of 45 to 55 percent.

Claim 10 (Original) The composition as in claim 1 wherein the composition has a redox of 0.35 to 0.55.

Claim 11 (Original) The composition as in claim 1 wherein the composition has a redox of 0.20 to 0.35.

Claim 12 (Original) The composition as in claim 1 wherein the dominant wavelength of the glass is in the range of 480 to 492 nanometers.

Claim 13 (Original) The composition as in claim 12 wherein the dominant wavelength of the glass is up to 489 nanometers.

Claim 14 (Original) The composition as in claim 1 wherein the total iron concentration is from 0.9 to 1.3 weight percent, the FeO concentration is 0.20 to 0.35 weight percent, and the CoO concentration is 60 to 90 PPM.

Claim 15 (Original) The composition as in claim 1 wherein the TiO<sub>2</sub> concentration is 0.02 to 0.40 weight percent.

Claim 16 (Original) The composition as in claim 1 wherein the glass has a total solar ultraviolet transmittance (TSUV) of 55 percent or less, a total solar infrared transmittance (TSIR) of 35 percent or less and a total solar energy (TSET) transmittance of 55 percent or less.

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Claim 17 (Currently amended) The composition as in claim 1 wherein at a thickness of 0.160 inches, the glass has a color characterized by a dominant wavelength in the range of 481 to 489 nanometers and an excitation purity of 8 to 30 percent ~~at a thickness of 0.160 inches~~.

Claim 18 (Currently amended) The composition as in claim 16 wherein at a thickness of 0.160 inches, the glass has a total solar ultraviolet transmittance (TSUV) of 40 percent or less, a total solar infrared transmittance (TSIR) of 25 percent or less and a total solar energy (TSET) transmittance of 40 percent or less, and the color of the glass is characterized by a dominant wavelength in the range of 482 to 487 nanometers and an excitation purity of 8 to 30 percent ~~at a thickness of 0.160 inches~~.

Claim 19 (Currently amended) The composition as in claim 1 wherein at a thickness of 0.154 inches the glass has a total solar ultraviolet transmittance (TSUV) in the range of 20 to 40 percent, a total solar infrared transmittance (TSIR) in the range of 10 to 35 and a total solar energy transmittance (TSET) in the range of 25 to 45 percent or less ~~at a thickness of 0.154 inches~~.

Claim 20 (Original) The composition as in claim 1 wherein, the Selenium concentration is up to 6 PPM.

Claim 21 (Currently amended) A flat glass sheet ~~formed by the float process~~  
~~from having~~ the glass composition recited in claim 1 formed by a float  
process.

Claim 22 (Original) An automotive window formed from the flat glass sheet of claim 17.

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Ans Claim 23 (Currently amended) A blue colored, infrared and ultraviolet radiation absorbing glass composition having a composition comprising a base glass portion comprising:

SiO <sub>2</sub>	66 to 75 percent by weight,
Na <sub>2</sub> O	10 to 20 percent by weight,
CaO	5 to 15 percent by weight,
MgO	0 to 5 percent by weight,
Al <sub>2</sub> O <sub>3</sub>	0 to 5 percent by weight,
K <sub>2</sub> O	0 to 5 percent by weight,

and a primary solar radiation absorbing and colorant portion comprising:

total iron	0.6 to 2 percent by weight,
FeO	0.15 to 0.65 percent by weight,
CoO	30 to 250 PPM,
Se	present in an amount up to 15 PPM, and
TiO <sub>2</sub>	0 to 0.9 percent by weight,
Nd <sub>2</sub> O <sub>3</sub>	0 to 3 percent by weight,

the glass having a redox in the range of 0.15 to 0.55, wherein at a redox range from ~~0.14~~ 0.15 to 0.4, the range of CoO is from 60 to 250 PPM, and wherein at a redox range greater than 0.4, the CoO is in the range of 30 to 100 PPM and wherein at a thickness of 0.154 inches the glass has: a luminous transmittance (LTA) of 35% up to 60%,

a total solar ultraviolet transmittance (TSUV) of 55 percent or less,

a total solar infrared transmittance (TSIR) of 35 percent or less; and  
a total solar energy (TSET) transmittance of 55 percent or less; and  
a color characterized by a dominant wavelength in the range of 479 to  
495 nanometers and an excitation purity of at least 4% ~~at a thickness of 0.154~~  
inches.

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Claim 24 (Original) The composition as in claim 23 wherein the total iron  
concentration is from 0.9 to 1.3 weight percent, the FeO concentration is 0.20  
to 0.50 weight percent, the CoO concentration is 60 to 100 PPM, the  
Selenium concentration is up to 12 PPM, and the dominant wavelength of the  
glass is in the range of 479 to 491 nanometers, and the LTA is in the range of  
40 to 55 percent.

Claim 25 (Original) The composition as in claim 23 wherein the CoO  
concentration is 60 to 95 PPM.

Claim 26 (Original) The composition as in claim 23 wherein the selenium  
concentration is up to 6 PPM.

Claim 27 (Original) The composition as in claim 23 wherein, and the TiO<sub>2</sub>  
concentration is 0 to 0.5 weight percent.

Claim 28 (Original) The composition as in claim 23 wherein the composition  
has a redox of 0.15 to 0.35.

Claim 29 (Original) The composition as in claim 23 wherein the glass has a  
total solar ultraviolet transmittance (TSUV) of 40 percent or less, a total solar  
infrared transmittance (TSIR) of 25 percent or less and a total solar energy  
(TSET) transmittance of 45 percent or less.

Claim 30 (Original) The composition as in claim 29 wherein the glass has a color characterized by a dominant wavelength in the range of 482 to 487 nanometers and an excitation purity of 8 to 20 percent.

Claim 31 (Currently amended) The composition as in claim 23 wherein at a thickness of 0.154 inches the glass has a total solar ultraviolet transmittance (TSUV) in the range of 20 to 40 percent, a total solar infrared transmittance (TSIR) in the range of 10 to 35 and a total solar energy transmittance (TSET) in the range of 25 to 45 percent or less ~~at a thickness of 0.154 inches~~.

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Cont Claim 32 (Currently amended) A flat glass sheet ~~formed by the float process~~ from having the glass composition recited in claim 23 formed by a float process.

Claim 33 (Original) An automotive window formed from the flat glass sheet of claim 23.

Claim 34 (Original) An automotive transparent glazing panel comprising:  
at least one transparent panel selected from side and back transparent panels that is a blue colored, infrared and ultraviolet radiation absorbing glass composition having a composition comprising a base glass portion, comprising:

SiO <sub>2</sub>	66 to 75 percent by weight,
Na <sub>2</sub> O	10 to 20 percent by weight,
CaO	5 to 15 percent by weight,
MgO	0 to 5 percent by weight,
Al <sub>2</sub> O <sub>3</sub>	0 to 5 percent by weight,
K <sub>2</sub> O	0 to 5 percent by weight,

and a primary solar radiation absorbing and colorant portion comprising:

total iron	0.6 to 2 percent by weight,
FeO	0.15 to 0.65 percent by weight,
CoO	30 to 250 PPM,

Se greater than 0 up to 15 PPM,  
Nd<sub>2</sub>O<sub>3</sub> 0 to 3 percent by weight, and  
TiO<sub>2</sub> 0 to 0.9 percent by weight,

92 the glass having a redox in the range of 0.15 to 0.58, wherein at a redox range from 0.15 to 0.4, the range of CoO is from 60 to 250 PPM, and wherein at a redox range greater than 0.4, the CoO is in the range of 30 to 100 PPM and wherein the glass has a luminous transmittance (LTA) of 35% up to 60%, and a color characterized by a dominant wavelength in the range of 479 to 495 nanometers and an excitation purity of at least 4% at a thickness of 0.160 inches wherein the glazing panel has a thickness in the range of 1.5 to 10 millimeters.

Claim 35 (Original) Transparent glass glazing panel set for mounting on an automobile vehicle, comprising:

a windshield,  
front side windows,  
rear side windows ;and  
a rear window,

wherein at least one of the front side windows, rear side windows; or rear window has the glazing panel of Claim 34.

Claims 36 – 39 (Withdrawn)

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Claim 40 (New) The composition as in claim 1 wherein the primary solar radiation absorbing and colorant portion consists essentially of:

93 total iron 0.6 to 2 percent by weight,  
FeO 0.15 to 0.65 percent by weight,  
CoO 30 to 250 PPM,  
Se present in an amount up to 15 PPM, and  
TiO<sub>2</sub> 0 to 0.9 percent by weight,  
Nd<sub>2</sub>O<sub>3</sub> 0 to 3 percent by weight.

Claim 41 (New) The composition as in claim 1 wherein the primary radiation absorbing and colorant portion further includes  $\text{Cr}_2\text{O}_3$  in amounts of 0 to 10 PPM.

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Claim 42 (New) The composition according to claim 1 wherein Se is in the range of 1 to 6 PPM.

Claim 43 (New) The composition according to claim 42 wherein the primary radiation absorbing and colorant portion further includes  $\text{Cr}_2\text{O}_3$  in amounts of 0 to 10 PPM.

Claim 44 (New) The composition according to claim 1 wherein Se is in an amount of greater than 6 PPM.

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